

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 562964	FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application No.	International filing da	te (day/month/year)	Priority date (day/month/year)			
PCT/JP2003/016212	18 December 20	03 (18.12.2003)	16 January 2003 (16.01.2003)			
International Patent Classification (IPC) or national classification and IPC C07C 5/03, 15/085, C07B 61/00						
Applicant SUMITOMO CHEMICAL COMPANY, LIMITED						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of3 sheets, including this cover sheet.						
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and	to the International Bu	reau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of	of this report			
01 June 2004 (01.06.2004)		28 O	ctober 2004 (28.10.2004)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				

Translation

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International application No.

PCT/JP2003/016212

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No.	1	Basis of the report			
		d to the language, this report is based on the international application in the language in which it was filed, unless ndicated under this item.			
	This which	report is based on translations from the original language into the following language, ch is language of a translation furnished for the purpose of:			
	international search (under Rules 12.3 and 23.1(b))				
ĺ		publication of the international application (under Rule 12.4)			
•	international preliminary examination (under Rules 55.2 and/or 55.3)				
furnis	shed to	d to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" tannexed to this report):			
	The i	international application as originally filed/furnished			
	the d	escription:			
	page				
	page				
!	page	received by this Authority on			
	the c	laims:			
1	page				
i	page				
	page:				
	bage	received by this Authority on			
	the d	rawings:			
	page				
1	page				
	page	received by this Authority on			
	a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.	The a	amendments have resulted in the cancellation of:			
		the description, pages			
	\Box	the claims, Nos.			
	同	the drawings, sheets/figs			
	一	the sequence listing (specify):			
	Ħ	any table(s) related to sequence listing (specify):			
4.	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been specifically since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box et 70.2(c)). The description, pages			
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* If iten	1 4 ap,	plies, some or all of those sheets may be marked "superseded."			



International application No.

PCT/JP03/16212

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
		YES			
Claims	1-3	I ES			
Claims		NO			
Claims		YES			
Claims	1-3	NO NO			
Claims	1-3	YES			
Claims		NO			
	Claims Claims Claims Claims Claims Claims Claims	Claims 1-3 Claims Claims 1-3 Claims Claims 1-3 Claims 1-3			

2. Citations and explanations (Rule 70.7)

Document 1: US, 3127452, A (Societa Italiana Resine), 31 March, 1964 (31.03.64), Example 2, the claims Document 2: JP, 56-140933, A (Sumitomo Chemical Co., Ltd.), 4 November, 1981 (04.11.81), the claims, examples

The subject matters of claims 1-3 do not appear to involve an inventive step in view of documents 1 and 2 cited in the ISR.

Document 1 discloses the method of preparing cumene by making an α-methylstyrene solution and hydrogen pass upward through a packed bed of a hydrogenation catalyst. Document 2 discloses that a liquid containing dimethylstyrene and hydrogen are passed up from the bottom through a packed bed of a hydrogenation catalyst.

Conditions of reaction to ensure a good yield are set suitably by a person skilled in the art within the limits of reaction temperatures, pressures and other conditions of reaction shown in these document. Thus, a person skilled in the art could have easily set a superficial velocity of gas of the present application even if it is not described in these documents.